AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method comprising:

injuring a vessel region, saidthe vessel region comprising a bypass vessel leading to a target area for blood flow, wherein the bypass vessel is adjacent to a primary vessel leading to a the target area for blood flow, saidthe primary vessel having an occlusion to blood flow; and delivering an arteriogenic factor to saidthe bypass vessel in a medically effective manner to structurally enlarge an existing blood vessel.

- 2. (Currently Amended) The method of claim 1 wherein said deliverydelivering comprises providing saidthe arteriogenic factor to saidthe vessel region for a duration ranging from about one week to about five weeks.
- 3. (Currently Amended) The method of claim 1 further comprising providing a second delivery of saidthe arteriogenic factor to saidthe vessel region at about 3 to about 10 days after saidthe delivering.
- 4. (Currently Amended) The method of claim 1 wherein said deliverydelivering comprises: providing a syringe to accommodate saidthe arteriogenic factor; and advancing saidthe arteriogenic factor from saidthe syringe to saidthe vessel region.
- 5. (Currently Amended) The method of claim 1 wherein said deliverydelivering comprises: providing a needle catheter to accommodate saidthe arteriogenic factor; and advancing saidthe arteriogenic factor from saidthe needle catheter to saidthe vessel region.
- 6. (Currently Amended) The method of claim 1 wherein said deliverydelivering comprises: providing a porous balloon catheter having a porous balloon to accommodate saidthe arteriogenic factor; and

advancing <u>saidthe</u> arteriogenic factor from <u>saidthe</u> porous balloon to <u>saidthe</u> vessel region via pores of <u>saidthe</u> porous balloon.

- 7. (Canceled).
- 8. (Currently Amended) The method of claim 1 wherein saidthe arteriogenic factor is a needle catheter, saidthe delivery comprising advancing a needle of saidthe needle catheter to saidthe vessel region, saidthe needle to puncture saidthe vessel region.
- 9. (Canceled).
- 10. (Currently Amended) The method of claim 1 wherein delivering saidthe arteriogenic factor includes delivering a catheter with a distal portion cooled to between about 0° C and about 10° C.
- 11. (Currently Amended) The method of claim 1 wherein delivering saidthe arteriogenic factor includes delivering a catheter with a distal portion heated to a range from about 40° C to about 90°C.

12.-23. (Canceled)

24. (Currently Amended) A method of structurally enlarging a bypass vessel adjacent to a primary vessel, saidthe method comprising:

injuring saidthe bypass vessel, wherein the bypass vessel and a primary vessel provide a path for delivery to a target area and wherein the primary vessel comprises an occlusion;

advancing a distal portion of a catheter to saidthe bypass vessel;

delivering an arteriogenic factor in a medically effective manner to saidthe bypass vessel via saidthe catheter; and

causing an enlargement to at least a portion of the bypass vessel.

25.-32. (Canceled)

- 33. (Currently Amended) The method of claim 24 wherein delivering further comprises providing saidthe arteriogenic factor to saidthe bypass vessel for a duration ranging from about one week to about five weeks.
- 34. (Currently Amended) The method of claim 24 wherein delivering further comprises providing a second delivery of <u>saidthe</u> arteriogenic factor to <u>saidthe</u> bypass vessel at about 3 to about 10 days after a first delivering of <u>saidthe</u> arteriogenic factor.
- 35. (Currently Amended) The method of claim 24 wherein delivering further comprises: providing a syringe to accommodate <u>saidthe</u> arteriogenic factor; and advancing <u>saidthe</u> arteriogenic factor from <u>saidthe</u> syringe to <u>saidthe</u> bypass vessel.
- 36. (Currently Amended) The method of claim 24 wherein delivering further comprises: providing a needle catheter to accommodate saidthe arteriogenic factor; and advancing saidthe arteriogenic factor from saidthe needle catheter to saidthe bypass vessel.
- 37. (Currently Amended) The method of claim 24 wherein delivering further comprises: providing a porous balloon catheter having a porous balloon to accommodate saidthe arteriogenic factor; and

advancing <u>saidthe</u> arteriogenic factor from <u>saidthe</u> porous balloon to <u>saidthe</u> bypass vessel via pores of <u>saidthe</u> porous balloon.